

DERWENT-ACC-NO: 1995-022741

DERWENT-WEEK: 200317

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TITLE: Thermoplastic resin compsn. giving
films or sheets with good water absorbence, humidity
permeation, etc. - contains fine powder of a natural
organic substance produced by dry mechanical
pulverisation processes

INVENTOR: FUKATSU, F; KUSAMOTO, N ; MIKAMI, S ; OHYAMA, S ;
SANO, M ; SASAKI, N
; UBARA, A ; YASUE, T

PATENT-ASSIGNEE: IDEMITSU PETROCHEM CO[IDEM] , IDEMITSU
PETROCHEM CO
LTD[IDEM]

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1993JP-0121743 (May 24, 1993)
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27, 1993)
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1994)
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, 1994JP-0096327 (May 10, 1994)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
JP 3373039 B2		February 4, 2003	N/A
005	C09D	011/04	
WO 9428056 A1		December 8, 1994	E
082	C08J	005/18	
JP 06339924 A		December 13, 1994	N/A
006	B29B	013/10	
JP 06344691 A		December 20, 1994	N/A

004	B42D 015/10	
JP 06346009 A	December 20, 1994	N/A
005	C09D 007/12	
JP 07041569 A	February 10, 1995	N/A
006	C08J 005/18	
EP 665262 A1	August 2, 1995	E
062	C08J 005/18	
JP 07188563 A	July 25, 1995	N/A
006	C08L 089/00	
JP 07278441 A	October 24, 1995	N/A
005	C08L 101/00	
JP 07278472 A	October 24, 1995	N/A
004	C09D 007/12	
JP 07279053 A	October 24, 1995	N/A
006	D06M 015/15	
JP 07292306 A	November 7, 1995	N/A
005	C09D 011/04	
JP 07310019 A	November 28, 1995	N/A
007	C08L 101/00	
EP 665262 A4	October 11, 1995	N/A
000	C08J 005/18	
US 5718954 A	February 17, 1998	N/A
028	D06M 010/00	
EP 875523 A1	November 4, 1998	E
000	C08J 005/18	
EP 878513 A1	November 18, 1998	E
000	C08L 101/00	
JP 2829220 B2	November 25, 1998	N/A
004	C09D 005/00	
JP 2842980 B2	January 6, 1999	N/A
005	B29B 013/10	
JP 2951505 B2	September 20, 1999	N/A
004	B42D 015/10	
JP 2968434 B2	October 25, 1999	N/A
006	D06M 015/15	
JP 3014585 B2	February 28, 2000	N/A
006	C08J 005/18	
JP 3342946 B2	November 11, 2002	N/A
004	C09D 201/00	
JP 3375707 B2	February 10, 2003	N/A
006	C08L 101/00	

DESIGNATED-STATES: KR US AT BE CH DE DK ES FR GB GR IE IT
 LU MC NL PT SE AT BE
 CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE DE FR GB IT DE
 FR GB IT

CITED-DOCUMENTS: JP 01193399; JP 01293142 ; JP 01293144 ;
 JP 04337331
 ; 3.Jnl.Ref ; EP 11161 ; EP 456264 ; EP 480362 ; JP
 03043208 ; JP 05078979 ; JP
 58204049

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 3373039B2	N/A	
1994JP-0084412	April 22, 1994	
JP 3373039B2	Previous Publ.	JP 7292306
N/A		
WO 9428056A1	N/A	
1994WO-JP00823	May 24, 1994	
JP 06339924A	N/A	
1993JP-0131926	June 2, 1993	
JP 06344691A	N/A	
1993JP-0138440	June 10, 1993	
JP 06346009A	N/A	
1993JP-0137598	June 8, 1993	
JP 07041569A	N/A	
1994JP-0096327	May 10, 1994	
EP 665262A1	N/A	
1994EP-0915283	May 24, 1994	
EP 665262A1	N/A	
1994WO-JP00823	May 24, 1994	
EP 665262A1	Based on	WO 9428056
N/A		
JP 07188563A	N/A	
1993JP-0332132	December 27, 1993	
JP 07278441A	N/A	
1994JP-0068526	April 6, 1994	
JP 07278472A	N/A	
1994JP-0070618	April 8, 1994	
JP 07279053A	N/A	
1994JP-0068525	April 6, 1994	
JP 07292306A	N/A	
1994JP-0084412	April 22, 1994	
JP 07310019A	N/A	
1994JP-0102924	May 17, 1994	
EP 665262A4	N/A	
1994EP-0915283	N/A	
US 5718954A	N/A	
1994WO-JP00823	May 24, 1994	
US 5718954A	N/A	
1995US-0374788	July 17, 1995	
US 5718954A	Based on	WO 9428056

N/A		
EP 875523A1	Div ex	
1994EP-0915283	May 24, 1994	
EP 875523A1	N/A	
1998EP-0111100	May 24, 1994	
EP 875523A1	Div ex	EP 665262
N/A		
EP 878513A1	Div ex	
1994EP-0915283	May 24, 1994	
EP 878513A1	N/A	
1998EP-0111099	May 24, 1994	
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N/A		
JP 2829220B2	N/A	
1993JP-0137598	June 8, 1993	
JP 2829220B2	Previous Publ.	JP 6346009
N/A		
JP 2842980B2	N/A	
1993JP-0131926	June 2, 1993	
JP 2842980B2	Previous Publ.	JP 6339924
N/A		
JP 2951505B2	N/A	
1993JP-0138440	June 10, 1993	
JP 2951505B2	Previous Publ.	JP 6344691
N/A		
JP 2968434B2	N/A	
1994JP-0068525	April 6, 1994	
JP 2968434B2	Previous Publ.	JP 7279053
N/A		
JP 3014585B2	N/A	
1994JP-0096327	May 10, 1994	
JP 3014585B2	Previous Publ.	JP 7041569
N/A		
JP 3342946B2	N/A	
1994JP-0070618	April 8, 1994	
JP 3342946B2	Previous Publ.	JP 7278472
N/A		
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JP 3375707B2	Previous Publ.	JP 7188563
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 B02C021/00 ,
 B24D015/00 , B29B009/12 , B29B013/10 , B29C041/24 ,
 B29C043/02 ,
 B29C043/24 , B29C045/00 , B29C049/00 , B29C055/28 ,

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B29K075:00 , B29K101:12 , B29K105:16 , B29K311:10 ,
B29L007:00 ,
B29L009:00 , B32B005/16 , B32B009/02 , B32B027/04 ,
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B32B027/12 , B32B027/28 , B42D015/00 , B42D015/10 ,
C03C017/32 ,
C08J003/12 , C08J005/00 , C08J005/18 , C08J007/04 ,
C08J007/12 ,
C08L075/04 , C08L089/00 , C08L101/00 , C08L101/16 ,
C09D005/00 ,
C09D005/28 , C09D007/12 , C09D011/04 , C09D201/00 ,
C09J007/12 ,
D06M010/00 , D06M015/15 , D06M015/564 , D06M015/643 ,
D06M023/08 ,
D06N003/00 , G11B023/38

ABSTRACTED-PUB-NO: US 5718954A

BASIC-ABSTRACT:

Thermoplastic films, contg. fine powder (particulate size = 30 μ m or less) of a natural organic substance (1-40 wt.%), are produced by moulding using an inflation, T-die or calendar method.

Also claimed are (1) a lamination comprising laminated layers contg. at least one layer of the invented film or sheet, (2) a coating material contg. fine powder of the natural organic substance, (3) a mould is furnished with a writable surface formed using this coating material, and (4) methods of reducing the fine powder of the natural organic substance, films, sheets, laminations, etc.

The fine powder of the natural organic substance is at least one of leather powder, silk powder, cellulose powder and wool powder. The fine powder contains 10 wt.% or less water. A coating material for forming an information display surface contains the fine powder of the natural organic substance which

can be silk fine powder, collagen fine powder, powder, wool fine powder, cellulose fine powder, cotton fine powder or linen fine powder having a powder size of 15 μ m or less.

USE - The fine powder of the natural organic substance is used for producing plastic films, sheets, coating materials.

ADVANTAGE - Moulds such as sheets, films, laminations etc. have excellent water-absorbency, humidity-permeation and excellent touch.

ABSTRACTED-PUB-NO: WO 9428056A

EQUIVALENT-ABSTRACTS:

Thermoplastic films, contg. fine powder (particulate size = 30 μ m or less) of a natural organic substance (1-40 wt.%), are produced by moulding using an inflation, T-die or calendar method.

Also claimed are (1) a lamination comprising laminated layers contg. at least one layer of the invented film or sheet, (2) a coating material contg. fine powder of the natural organic substance, (3) a mould is furnished with a writable surface formed using this coating material, and (4) methods of reducing the fine powder of the natural organic substance, films, sheets, laminations, etc.

The fine powder of the natural organic substance is at least one of leather powder, silk powder, cellulose powder and wool powder. The fine powder contains 10 wt.% or less water. A coating material for forming an information display surface contains the fine powder of the natural organic substance which can be silk fine powder, collagen fine powder, powder, wool fine powder, cellulose fine powder, cotton fine powder or linen fine powder having a powder

size of 15 μ m or less.

USE - The fine powder of the natural organic substance is used for producing plastic films, sheets, coating materials.

ADVANTAGE - Moulds such as sheets, films, laminations etc. have excellent water-absorbency, humidity-permeation and excellent touch.

CHOSEN-DRAWING: Dwg.0/5 Dwg.0/5

TITLE-TERMS: THERMOPLASTIC RESIN COMPOSITION FILM SHEET
WATER ABSORB HUMIDITY
PERMEATE CONTAIN FINE POWDER NATURAL ORGANIC
SUBSTANCE PRODUCE DRY
MECHANICAL PULVERISE PROCESS

DERWENT-CLASS: A60 F06 G02 P41 P61 P73 P76

CPI-CODES: A08-R01; A12-G; A12-S06C; A12-S07A; F03-C05;
G02-A03;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; S9999 S1025 S1014 ; P1592*R F77 D01 ; P0839*R F41
D01 D63

; P0088*R ; P0500 F* 7A ; P1445*R F81 Si 4A ; H0317 ;
S9999 S1285*R
; S9999 S1581

Polymer Index [1.2]

017 ; ND04 ; N9999 N5970*R ; N9999 N5992 N5970 ; N9999
N6940 N6939

; N9999 N7192 N7023 ; Q9999 Q7818*R ; K9449 ; B9999
B3407 B3383

B3372 ; B9999 B4875 B4853 B4740 ; B9999 B5276*R ; Q9999
Q7283 ;

K9676*R ; K9574 K9483 ; N9999 N6780*R N6655 ; N9999
N6439

Polymer Index [1.3]

017 ; A999 A237 ; B9999 B5209 B5185 B4740

Polymer Index [2.1]

017 ; D01 G3725 G3714 P0599 F70 ; R01852*R G3634 D01
D03 D11 D10

D23 D22 D31 D42 D50 D86 F24 F29 F26 F34 H0293 P0599
G3623 ; R24068

G3714 P0599 D01 F70 ; R24034 G3714 P0599 D01 F70 ;
R24078 R01852

G3634 G3623 D01 D03 D11 D10 D23 D22 D31 D42 D50 D86 F24
F29 F26
F34 H0293 P0599 ; S9999 S1514 S1456 ; A999 A237 ; A999
A782 ; S9999
S1605*R ; S9999 S1025 S1014
Polymer Index [2.2]
017 ; B9999 B5209 B5185 B4740 ; N9999 N6144 ; N9999
N6780*R N6655
; N9999 N6439
Polymer Index [2.3]
017 ; A999 A475
Polymer Index [2.4]
017 ; D01 D19 D18 F30*R ; A999 A497 A486

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